

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P936058

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936058
REPORT IS A COMBINATION OF REPORTS P933778 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

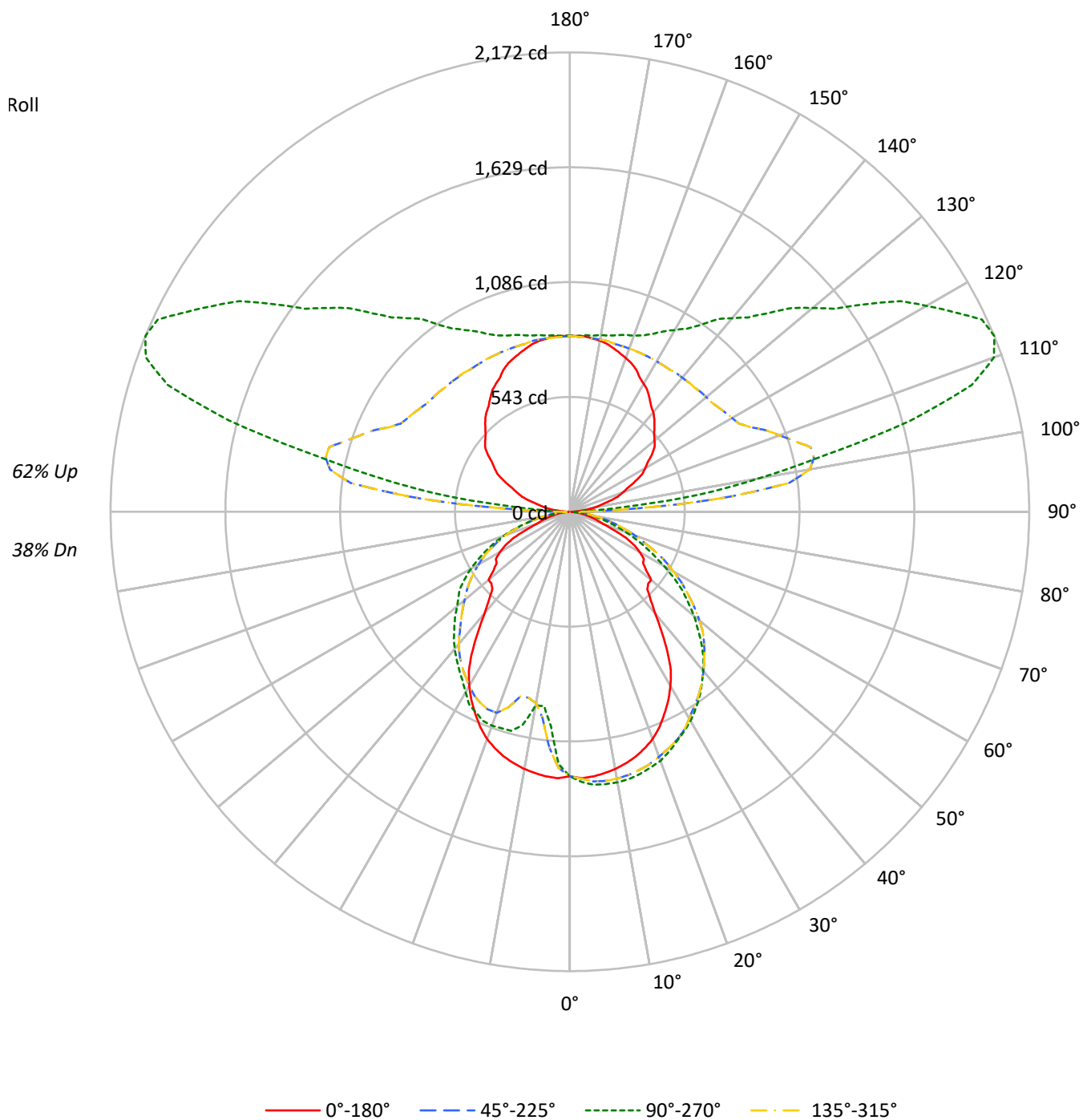
Lumens per Lamp: N/A
Luminaire Lumens: 8638.9 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P936058

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P936058

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38		
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32		
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27		
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23		
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19		
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17		
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15		
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13		
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12		
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10		
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11602	11602	11602	11602
5°	11676	11712	11676	9209
10°	11586	11536	11586	8248
15°	11445	11286	11445	9425
20°	11194	10991	11194	9444
25°	10691	10559	10691	9245
30°	10046	10200	10046	8805
35°	8942	9747	8942	8323
40°	7439	9213	7439	7957
45°	6633	8588	6633	7538
50°	7032	7843	7032	7117
55°	6596	7040	6596	6873
60°	6776	5978	6776	6295
65°	6114	4942	6114	5525
70°	4204	3938	4204	4631
75°	3647	2911	3647	3487
80°	2878	1926	2878	2095
85°	1565	1019	1565	866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 10186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.3
10°-20°	320.5	3.7
20°-30°	495.4	5.7
30°-40°	591.4	6.8
40°-50°	594.8	6.9
50°-60°	517.6	6.0
60°-70°	367.0	4.2
70°-80°	194.1	2.2
80°-90°	51.5	0.6
90°-100°	405.6	4.7
100°-110°	1066.3	12.3
110°-120°	1105.6	12.8
120°-130°	886.8	10.3
130°-140°	695.8	8.1
140°-150°	534.1	6.2
150°-160°	384.6	4.5
160°-170°	235.3	2.7
170°-180°	79.5	0.9
0°-30°	928.7	10.8
0°-40°	1520.1	17.6
0°-60°	2632.5	30.5
0°-90°	3245.1	37.6
90°-120°	2577.5	29.8
90°-150°	4694.3	54.3
90°-180°	5394.0	62.4
0°-180°	8638.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1250	1250	1250	1250	1250	
5°	1256	1295	1256	1018	1256	119
15°	1199	1283	1199	1072	1199	337
25°	1056	1197	1056	1048	1056	485
35°	803	1068	803	912	803	497
45°	518	880	518	772	518	415
55°	422	650	422	634	422	388
65°	293	392	293	438	293	280
75°	111	186	111	222	111	117
85°	19	47	19	40	19	26
90°	6	21	6	21	6	5
95°	54	245	54	245	54	60
105°	192	1670	192	1670	192	204
115°	341	2150	341	2150	341	337
125°	475	1712	475	1712	475	421
135°	566	1328	566	1328	566	438
145°	656	1078	656	1078	656	411
155°	742	928	742	928	742	341
165°	800	864	800	864	800	226
175°	832	838	832	838	832	79
180°	832	832	832	832	832	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1261.0	1261.0	1268.1	1270.4	1270.4	1266.9	1263.4	1266.9	1277.5	1281.1	1279.9
5°	1256.3	1265.7	1278.8	1281.1	1283.4	1282.3	1279.9	1282.3	1294.1	1296.5	1297.7
7.5°	1246.8	1264.5	1281.1	1284.7	1288.2	1284.7	1283.4	1285.8	1297.7	1300.0	1300.0
10°	1235.0	1259.8	1278.8	1281.1	1284.7	1281.1	1281.1	1285.8	1297.7	1300.0	1301.2
12.5°	1218.4	1252.7	1270.4	1272.9	1277.5	1276.4	1275.2	1279.9	1291.8	1294.1	1294.1
15°	1199.4	1239.7	1256.3	1258.6	1266.9	1264.5	1264.5	1269.3	1282.3	1285.8	1284.7
17.5°	1173.5	1223.2	1242.1	1245.6	1251.6	1250.3	1251.6	1256.3	1268.1	1270.4	1271.6
20°	1143.9	1200.7	1223.2	1226.7	1232.6	1232.6	1232.6	1238.5	1250.3	1255.0	1255.0
22.5°	1103.7	1177.0	1200.7	1203.0	1210.1	1210.1	1212.5	1220.8	1231.4	1232.6	1232.6
25°	1056.4	1151.0	1171.1	1178.2	1185.3	1188.8	1192.4	1197.1	1200.7	1199.4	1200.7
27.5°	1006.7	1117.9	1143.9	1148.6	1158.1	1161.7	1166.3	1167.6	1168.7	1172.2	1169.9
30°	951.1	1071.7	1110.7	1115.5	1130.9	1133.2	1128.5	1130.9	1136.8	1139.2	1141.5
32.5°	888.3	1003.1	1076.4	1087.1	1101.3	1094.2	1093.0	1096.6	1106.1	1106.1	1108.4
35°	803.2	949.9	1044.6	1054.0	1064.6	1056.4	1061.0	1062.3	1068.2	1071.7	1070.5
37.5°	709.7	903.7	1011.4	1018.5	1026.7	1016.1	1023.3	1026.7	1031.5	1029.2	1029.2
40°	627.0	831.6	972.4	977.1	984.2	975.9	983.0	985.4	987.7	985.4	984.2
42.5°	565.5	752.3	930.9	936.9	932.1	938.0	940.4	945.2	941.6	936.9	936.9
45°	518.1	731.0	886.0	893.1	886.0	895.5	899.0	899.0	888.3	886.0	884.8
47.5°	502.7	688.5	841.1	841.1	837.5	849.3	855.3	847.0	836.3	832.8	832.8
50°	501.6	641.1	779.5	774.8	791.4	805.6	799.7	791.4	783.1	770.1	770.1
52.5°	455.4	583.2	700.3	718.0	744.1	752.3	742.8	734.6	720.4	714.5	709.7
55°	422.3	522.9	628.2	663.6	690.8	701.5	683.7	675.4	654.1	650.6	648.2
57.5°	415.2	435.3	561.9	606.8	640.0	638.8	628.2	612.8	595.0	591.4	590.3
60°	380.9	314.6	490.9	544.2	578.5	574.9	565.5	551.2	534.7	532.4	529.9
62.5°	345.4	228.3	410.5	470.8	519.3	518.1	509.9	488.6	476.8	470.8	466.1
65°	293.4	191.6	292.1	391.5	461.4	463.7	446.0	430.6	417.6	410.5	409.2
67.5°	223.6	156.1	197.5	326.5	405.8	403.3	380.9	373.8	357.2	353.6	346.6
70°	165.6	104.1	137.3	265.0	351.3	345.4	327.7	319.4	304.0	295.7	291.0
72.5°	137.3	84.0	100.5	205.8	295.7	288.6	273.2	263.8	250.8	243.7	239.0
75°	111.2	88.7	76.9	152.6	240.1	235.4	221.2	211.7	201.1	191.6	192.9
77.5°	81.7	82.8	61.5	112.4	190.4	183.4	175.0	163.2	158.5	149.1	149.1
80°	61.5	65.1	46.1	76.9	137.3	137.3	130.1	121.9	113.5	108.9	108.9
82.5°	41.4	41.4	34.3	48.5	93.5	89.9	85.1	82.8	78.1	75.7	75.7
85°	18.9	23.6	21.3	29.5	50.9	53.3	53.3	50.9	49.7	47.3	48.5
87.5°	5.9	10.7	13.0	16.6	26.1	27.2	28.4	28.4	28.4	29.5	29.5
90°	5.6	10.0	14.5	15.7	24.6	36.5	42.4	37.7	28.3	21.2	21.2
92.5°	22.3	60.3	98.3	107.8	151.5	209.8	239.0	209.4	150.4	106.1	101.9
95°	53.6	123.1	192.6	210.0	372.8	590.0	698.6	623.4	473.0	360.2	347.4
97.5°	92.7	154.0	215.3	230.6	502.2	864.3	1045.4	997.8	902.7	831.5	807.1
100°	122.8	178.4	234.0	247.9	549.3	951.1	1152.0	1155.5	1162.5	1167.7	1138.7
102.5°	148.5	200.5	252.3	265.3	570.9	978.4	1182.2	1242.7	1363.8	1454.7	1429.9
105°	192.1	236.1	280.0	291.0	586.9	981.4	1178.8	1314.5	1586.0	1789.7	1776.4
107.5°	236.8	277.7	318.7	328.9	589.9	937.8	1111.8	1301.2	1679.9	1964.0	1967.2
110°	266.9	303.9	340.9	350.2	585.4	899.1	1055.9	1267.7	1691.1	2008.6	2022.5

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	296.5	331.8	367.1	375.9	585.6	865.3	1005.2	1221.8	1655.2	1980.2	2001.5
115°	341.2	373.7	406.2	414.4	591.0	826.6	944.3	1153.0	1570.5	1883.6	1913.2
117.5°	385.3	414.9	444.4	451.8	602.0	802.3	902.4	1090.8	1467.5	1750.1	1782.9
120°	410.9	438.8	466.5	473.5	610.9	794.1	885.6	1057.7	1402.0	1660.2	1692.1
122.5°	436.1	464.1	492.2	499.2	623.8	789.8	872.8	1027.8	1337.8	1570.3	1601.7
125°	474.7	500.2	525.8	532.2	641.0	786.3	858.9	990.5	1253.8	1451.3	1480.3
127.5°	505.9	531.7	557.5	564.0	658.3	784.2	847.1	960.2	1186.3	1355.9	1380.3
130°	522.7	550.4	578.2	585.2	671.0	785.5	842.7	943.3	1144.6	1295.5	1318.1
132.5°	540.0	567.8	595.6	602.5	681.2	786.3	838.7	928.8	1109.0	1244.1	1264.4
135°	565.7	591.0	616.2	622.6	692.4	785.5	832.0	907.5	1058.3	1171.5	1189.0
137.5°	591.9	617.0	642.0	648.3	709.2	790.4	830.9	894.7	1022.3	1118.0	1132.2
140°	613.7	636.8	659.9	665.7	719.5	791.2	827.0	882.1	992.3	1074.9	1088.3
142.5°	630.5	651.8	673.1	678.5	728.0	794.0	827.0	875.4	972.2	1044.8	1056.3
145°	656.2	674.8	693.3	698.0	739.2	794.1	821.4	861.0	940.2	999.5	1008.2
147.5°	681.8	700.0	718.0	722.6	755.6	799.5	821.4	852.6	914.8	961.6	968.7
150°	698.6	715.0	731.3	735.4	764.1	802.3	821.4	847.8	900.3	939.8	945.6
152.5°	715.9	728.3	740.7	743.8	769.7	804.2	821.4	843.9	888.9	922.5	926.9
155°	741.6	750.8	759.9	762.3	782.0	808.3	821.4	839.4	875.1	901.8	904.8
157.5°	760.6	769.5	778.4	780.6	794.2	812.4	821.4	835.3	863.1	883.9	886.0
160°	773.4	780.4	787.3	789.0	799.9	814.3	821.4	833.4	857.2	875.0	876.2
162.5°	786.3	791.5	796.6	798.0	805.8	816.3	821.4	831.5	851.6	866.7	867.7
165°	800.2	804.9	809.6	810.8	814.4	819.1	821.4	828.6	843.0	853.8	854.9
167.5°	813.0	815.3	817.5	818.0	821.0	825.0	827.0	831.7	841.1	848.2	848.8
170°	821.4	823.7	825.9	826.5	826.6	826.9	827.0	831.7	841.1	848.2	848.2
172.5°	825.9	826.4	826.9	827.0	827.0	827.0	827.0	830.8	838.2	843.7	843.3
175°	832.0	832.0	832.0	832.0	830.3	828.1	827.0	829.3	834.1	837.7	837.7
177.5°	832.0	832.0	832.0	832.0	830.8	829.1	828.2	830.0	833.7	836.5	836.0
180°	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1282.3	1278.8	1282.3	1279.9	1281.1	1277.5	1266.9	1263.4	1266.9	1270.4	1270.4
5°	1297.7	1295.3	1297.7	1297.7	1296.5	1294.1	1282.3	1279.9	1282.3	1283.4	1281.1
7.5°	1302.4	1298.8	1302.4	1300.0	1300.0	1297.7	1285.8	1283.4	1284.7	1288.2	1284.7
10°	1302.4	1298.8	1302.4	1301.2	1300.0	1297.7	1285.8	1281.1	1281.1	1284.7	1281.1
12.5°	1296.5	1294.1	1296.5	1294.1	1294.1	1291.8	1279.9	1275.2	1276.4	1277.5	1272.9
15°	1287.0	1283.4	1287.0	1284.7	1285.8	1282.3	1269.3	1264.5	1264.5	1266.9	1258.6
17.5°	1272.9	1268.1	1272.9	1271.6	1270.4	1268.1	1256.3	1251.6	1250.3	1251.6	1245.6
20°	1256.3	1252.7	1256.3	1255.0	1255.0	1250.3	1238.5	1232.6	1232.6	1232.6	1226.7
22.5°	1230.2	1226.7	1230.2	1232.6	1232.6	1231.4	1220.8	1212.5	1210.1	1210.1	1203.0
25°	1200.7	1197.1	1200.7	1200.7	1199.4	1200.7	1197.1	1192.4	1188.8	1185.3	1178.2
27.5°	1172.2	1169.9	1172.2	1169.9	1172.2	1168.7	1167.6	1166.3	1161.7	1158.1	1148.6
30°	1143.9	1141.5	1143.9	1141.5	1139.2	1136.8	1130.9	1128.5	1133.2	1130.9	1115.5
32.5°	1108.4	1106.1	1108.4	1108.4	1106.1	1106.1	1096.6	1093.0	1094.2	1101.3	1087.1
35°	1071.7	1068.2	1071.7	1070.5	1071.7	1068.2	1062.3	1061.0	1056.4	1064.6	1054.0
37.5°	1029.2	1025.6	1029.2	1029.2	1029.2	1031.5	1026.7	1023.3	1016.1	1026.7	1018.5
40°	985.4	980.6	985.4	984.2	985.4	987.7	985.4	983.0	975.9	984.2	977.1
42.5°	935.7	934.5	935.7	936.9	936.9	941.6	945.2	940.4	938.0	932.1	936.9
45°	882.4	880.1	882.4	884.8	886.0	888.3	899.0	899.0	895.5	886.0	893.1
47.5°	825.7	819.7	825.7	832.8	832.8	836.3	847.0	855.3	849.3	837.5	841.1
50°	765.3	766.6	765.3	770.1	770.1	783.1	791.4	799.7	805.6	791.4	774.8
52.5°	706.2	705.1	706.2	709.7	714.5	720.4	734.6	742.8	752.3	744.1	718.0
55°	647.0	649.5	647.0	648.2	650.6	654.1	675.4	683.7	701.5	690.8	663.6
57.5°	588.0	584.4	588.0	590.3	591.4	595.0	612.8	628.2	638.8	640.0	606.8
60°	519.3	514.5	519.3	529.9	532.4	534.7	551.2	565.5	574.9	578.5	544.2
62.5°	458.9	450.7	458.9	466.1	470.8	476.8	488.6	509.9	518.1	519.3	470.8
65°	395.1	391.5	395.1	409.2	410.5	417.6	430.6	446.0	463.7	461.4	391.5
67.5°	337.2	337.2	337.2	346.6	353.6	357.2	373.8	380.9	403.3	405.8	326.5
70°	283.9	282.7	283.9	291.0	295.7	304.0	319.4	327.7	345.4	351.3	265.0
72.5°	233.0	231.9	233.0	239.0	243.7	250.8	263.8	273.2	288.6	295.7	205.8
75°	188.1	185.7	188.1	192.9	191.6	201.1	211.7	221.2	235.4	240.1	152.6
77.5°	144.3	144.3	144.3	149.1	149.1	158.5	163.2	175.0	183.4	190.4	112.4
80°	107.6	106.5	107.6	108.9	108.9	113.5	121.9	130.1	137.3	137.3	76.9
82.5°	75.7	73.3	75.7	75.7	75.7	78.1	82.8	85.1	89.9	93.5	48.5
85°	47.3	47.3	47.3	48.5	47.3	49.7	50.9	53.3	53.3	50.9	29.5
87.5°	30.8	29.5	30.8	29.5	29.5	28.4	28.4	28.4	27.2	26.1	16.6
90°	21.2	21.2	21.2	21.2	21.2	28.3	37.7	42.4	36.5	24.6	15.7
92.5°	85.0	68.1	85.0	101.9	106.1	150.4	209.4	239.0	209.8	151.5	107.8
95°	296.3	245.1	296.3	347.4	360.2	473.0	623.4	698.6	590.0	372.8	210.0
97.5°	709.9	612.6	709.9	807.1	831.5	902.7	997.8	1045.4	864.3	502.2	230.6
100°	1022.8	906.9	1022.8	1138.7	1167.7	1162.5	1155.5	1152.0	951.1	549.3	247.9
102.5°	1330.6	1231.3	1330.6	1429.9	1454.7	1363.8	1242.7	1182.2	978.4	570.9	265.3
105°	1723.0	1669.7	1723.0	1776.4	1789.7	1586.0	1314.5	1178.8	981.4	586.9	291.0
107.5°	1980.1	1993.0	1980.1	1967.2	1964.0	1679.9	1301.2	1111.8	937.8	589.9	328.9
110°	2078.1	2133.7	2078.1	2022.5	2008.6	1691.1	1267.7	1055.9	899.1	585.4	350.2

TEST NUMBER: P936058

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2086.9	2172.2	2086.9	2001.5	1980.2	1655.2	1221.8	1005.2	865.3	585.6	375.9
115°	2031.6	2149.9	2031.6	1913.2	1883.6	1570.5	1153.0	944.3	826.6	591.0	414.4
117.5°	1914.2	2045.4	1914.2	1782.9	1750.1	1467.5	1090.8	902.4	802.3	602.0	451.8
120°	1819.6	1947.2	1819.6	1692.1	1660.2	1402.0	1057.7	885.6	794.1	610.9	473.5
122.5°	1727.6	1853.4	1727.6	1601.7	1570.3	1337.8	1027.8	872.8	789.8	623.8	499.2
125°	1596.2	1712.1	1596.2	1480.3	1451.3	1253.8	990.5	858.9	786.3	641.0	532.2
127.5°	1478.1	1575.8	1478.1	1380.3	1355.9	1186.3	960.2	847.1	784.2	658.3	564.0
130°	1408.4	1498.8	1408.4	1318.1	1295.5	1144.6	943.3	842.7	785.5	671.0	585.2
132.5°	1345.2	1426.1	1345.2	1264.4	1244.1	1109.0	928.8	838.7	786.3	681.2	602.5
135°	1258.7	1328.5	1258.7	1189.0	1171.5	1058.3	907.5	832.0	785.5	692.4	622.6
137.5°	1189.3	1246.4	1189.3	1132.2	1118.0	1022.3	894.7	830.9	790.4	709.2	648.3
140°	1141.6	1195.0	1141.6	1088.3	1074.9	992.3	882.1	827.0	791.2	719.5	665.7
142.5°	1102.2	1148.1	1102.2	1056.3	1044.8	972.2	875.4	827.0	794.0	728.0	678.5
145°	1043.0	1077.8	1043.0	1008.2	999.5	940.2	861.0	821.4	794.1	739.2	698.0
147.5°	997.6	1026.4	997.6	968.7	961.6	914.8	852.6	821.4	799.5	755.6	722.6
150°	969.0	992.3	969.0	945.6	939.8	900.3	847.8	821.4	802.3	764.1	735.4
152.5°	944.6	962.1	944.6	926.9	922.5	888.9	843.9	821.4	804.2	769.7	743.8
155°	916.4	928.1	916.4	904.8	901.8	875.1	839.4	821.4	808.3	782.0	762.3
157.5°	894.1	902.4	894.1	886.0	883.9	863.1	835.3	821.4	812.4	794.2	780.6
160°	880.9	885.6	880.9	876.2	875.0	857.2	833.4	821.4	814.3	799.9	789.0
162.5°	872.2	876.7	872.2	867.7	866.7	851.6	831.5	821.4	816.3	805.8	798.0
165°	859.7	864.4	859.7	854.9	853.8	843.0	828.6	821.4	819.1	814.4	810.8
167.5°	850.7	852.7	850.7	848.8	848.2	841.1	831.7	827.0	825.0	821.0	818.0
170°	848.2	848.2	848.2	848.2	848.2	841.1	831.7	827.0	826.9	826.6	826.5
172.5°	841.6	839.9	841.6	843.3	843.7	838.2	830.8	827.0	827.0	827.0	827.0
175°	837.7	837.7	837.7	837.7	837.7	834.1	829.3	827.0	828.1	830.3	832.0
177.5°	834.0	832.0	834.0	836.0	836.5	833.7	830.0	828.2	829.1	830.8	832.0
180°	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0

TEST NUMBER: P936058

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1268.1	1261.0	1261.0	1249.1	1244.4	1240.9	1235.0	1217.3	1212.5	1207.8	1214.8
5°	1278.8	1265.7	1256.3	1235.0	1217.3	1210.1	1187.6	1145.1	1116.6	1095.4	1083.6
7.5°	1281.1	1264.5	1246.8	1213.7	1171.1	1152.2	1083.6	1005.5	984.2	965.2	953.4
10°	1278.8	1259.8	1235.0	1185.3	1084.8	1051.6	983.0	932.1	919.1	915.5	919.1
12.5°	1270.4	1252.7	1218.4	1135.6	994.9	972.4	932.1	902.6	900.2	906.1	938.0
15°	1256.3	1239.7	1199.4	1069.4	945.2	928.6	900.2	889.6	902.6	943.9	1039.8
17.5°	1242.1	1223.2	1173.5	1004.3	907.3	895.5	875.3	896.7	970.0	1025.6	1057.5
20°	1223.2	1200.7	1143.9	957.0	880.1	869.4	859.9	955.8	1011.4	1031.5	1049.2
22.5°	1200.7	1177.0	1103.7	923.9	851.7	843.4	849.3	989.0	1011.4	1025.6	1041.0
25°	1171.1	1151.0	1056.4	897.8	829.2	819.7	842.2	985.4	998.4	1001.9	1032.7
27.5°	1143.9	1117.9	1006.7	874.2	802.0	798.4	848.1	970.0	979.5	983.0	1016.1
30°	1110.7	1071.7	951.1	849.3	773.6	772.5	849.3	951.1	948.7	958.2	991.3
32.5°	1076.4	1003.1	888.3	818.6	746.4	745.3	841.1	922.7	920.3	933.4	958.2
35°	1044.6	949.9	803.2	783.1	712.1	713.3	820.9	889.6	890.7	902.6	918.0
37.5°	1011.4	903.7	709.7	744.1	679.0	679.0	793.7	858.8	856.5	859.9	881.3
40°	972.4	831.6	627.0	693.2	648.2	644.7	760.7	825.7	817.4	816.3	845.8
42.5°	930.9	752.3	565.5	625.7	612.8	608.0	720.4	785.5	770.1	773.6	811.5
45°	886.0	731.0	518.1	528.8	576.0	572.6	676.6	739.3	728.7	738.2	777.2
47.5°	841.1	688.5	502.7	438.9	537.0	535.8	628.2	694.4	688.5	697.9	739.3
50°	779.5	641.1	501.6	376.2	493.3	498.0	570.1	650.6	650.6	658.9	702.6
52.5°	700.3	583.2	455.4	340.7	442.4	456.6	519.3	612.8	615.1	623.4	662.4
55°	628.2	522.9	422.3	313.4	382.1	412.8	469.6	573.7	578.5	586.7	622.2
57.5°	561.9	435.3	415.2	281.6	326.5	356.1	425.8	535.8	538.3	545.3	579.6
60°	490.9	314.6	380.9	247.2	278.0	300.5	385.6	490.9	499.2	503.9	533.5
62.5°	410.5	228.3	345.4	223.6	254.4	259.1	352.5	448.3	458.9	462.5	480.2
65°	292.1	191.6	293.4	203.5	229.5	230.6	317.0	404.6	414.0	419.9	433.0
67.5°	197.5	156.1	223.6	184.5	210.6	211.7	282.7	353.6	366.7	371.5	379.7
70°	137.3	104.1	165.6	164.5	189.3	191.6	246.0	307.5	319.4	322.9	327.7
72.5°	100.5	84.0	137.3	147.9	166.8	169.1	208.2	255.5	267.3	270.9	273.2
75°	76.9	88.7	111.2	128.9	141.9	143.2	170.4	208.2	216.5	218.8	220.0
77.5°	61.5	82.8	81.7	104.1	115.9	113.5	133.7	160.9	168.0	168.0	168.0
80°	46.1	65.1	61.5	74.5	85.1	82.8	95.8	114.8	117.1	119.4	118.3
82.5°	34.3	41.4	41.4	47.3	56.8	54.4	63.8	74.5	74.5	74.5	76.9
85°	21.3	23.6	18.9	24.8	32.0	30.8	35.5	40.2	41.4	41.4	39.0
87.5°	13.0	10.7	5.9	9.5	14.2	14.2	16.6	17.7	16.6	16.6	16.6
90°	14.5	10.0	5.6	10.0	14.5	15.7	24.6	36.5	42.4	37.7	28.3
92.5°	98.3	60.3	22.3	60.3	98.3	107.8	151.5	209.8	239.0	209.4	150.4
95°	192.6	123.1	53.6	123.1	192.6	210.0	372.8	590.0	698.6	623.4	473.0
97.5°	215.3	154.0	92.7	154.0	215.3	230.6	502.2	864.3	1045.4	997.8	902.7
100°	234.0	178.4	122.8	178.4	234.0	247.9	549.3	951.1	1152.0	1155.5	1162.5
102.5°	252.3	200.5	148.5	200.5	252.3	265.3	570.9	978.4	1182.2	1242.7	1363.8
105°	280.0	236.1	192.1	236.1	280.0	291.0	586.9	981.4	1178.8	1314.5	1586.0
107.5°	318.7	277.7	236.8	277.7	318.7	328.9	589.9	937.8	1111.8	1301.2	1679.9
110°	340.9	303.9	266.9	303.9	340.9	350.2	585.4	899.1	1055.9	1267.7	1691.1

TEST NUMBER: P936058

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	367.1	331.8	296.5	331.8	367.1	375.9	585.6	865.3	1005.2	1221.8	1655.2
115°	406.2	373.7	341.2	373.7	406.2	414.4	591.0	826.6	944.3	1153.0	1570.5
117.5°	444.4	414.9	385.3	414.9	444.4	451.8	602.0	802.3	902.4	1090.8	1467.5
120°	466.5	438.8	410.9	438.8	466.5	473.5	610.9	794.1	885.6	1057.7	1402.0
122.5°	492.2	464.1	436.1	464.1	492.2	499.2	623.8	789.8	872.8	1027.8	1337.8
125°	525.8	500.2	474.7	500.2	525.8	532.2	641.0	786.3	858.9	990.5	1253.8
127.5°	557.5	531.7	505.9	531.7	557.5	564.0	658.3	784.2	847.1	960.2	1186.3
130°	578.2	550.4	522.7	550.4	578.2	585.2	671.0	785.5	842.7	943.3	1144.6
132.5°	595.6	567.8	540.0	567.8	595.6	602.5	681.2	786.3	838.7	928.8	1109.0
135°	616.2	591.0	565.7	591.0	616.2	622.6	692.4	785.5	832.0	907.5	1058.3
137.5°	642.0	617.0	591.9	617.0	642.0	648.3	709.2	790.4	830.9	894.7	1022.3
140°	659.9	636.8	613.7	636.8	659.9	665.7	719.5	791.2	827.0	882.1	992.3
142.5°	673.1	651.8	630.5	651.8	673.1	678.5	728.0	794.0	827.0	875.4	972.2
145°	693.3	674.8	656.2	674.8	693.3	698.0	739.2	794.1	821.4	861.0	940.2
147.5°	718.0	700.0	681.8	700.0	718.0	722.6	755.6	799.5	821.4	852.6	914.8
150°	731.3	715.0	698.6	715.0	731.3	735.4	764.1	802.3	821.4	847.8	900.3
152.5°	740.7	728.3	715.9	728.3	740.7	743.8	769.7	804.2	821.4	843.9	888.9
155°	759.9	750.8	741.6	750.8	759.9	762.3	782.0	808.3	821.4	839.4	875.1
157.5°	778.4	769.5	760.6	769.5	778.4	780.6	794.2	812.4	821.4	835.3	863.1
160°	787.3	780.4	773.4	780.4	787.3	789.0	799.9	814.3	821.4	833.4	857.2
162.5°	796.6	791.5	786.3	791.5	796.6	798.0	805.8	816.3	821.4	831.5	851.6
165°	809.6	804.9	800.2	804.9	809.6	810.8	814.4	819.1	821.4	828.6	843.0
167.5°	817.5	815.3	813.0	815.3	817.5	818.0	821.0	825.0	827.0	831.7	841.1
170°	825.9	823.7	821.4	823.7	825.9	826.5	826.6	826.9	827.0	831.7	841.1
172.5°	826.9	826.4	825.9	826.4	826.9	827.0	827.0	827.0	827.0	830.8	838.2
175°	832.0	832.0	832.0	832.0	832.0	832.0	830.3	828.1	827.0	829.3	834.1
177.5°	832.0	832.0	832.0	832.0	832.0	832.0	830.8	829.1	828.2	830.0	833.7
180°	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0

TEST NUMBER: P936058

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1206.6	1203.0	1207.8	1194.7	1207.8	1203.0	1206.6	1214.8	1207.8	1212.5	1217.3
5°	1058.7	1052.8	1033.9	1018.5	1033.9	1052.8	1058.7	1083.6	1095.4	1116.6	1145.1
7.5°	946.3	941.6	936.9	927.4	936.9	941.6	946.3	953.4	965.2	984.2	1005.5
10°	921.5	922.7	929.8	928.6	929.8	922.7	921.5	919.1	915.5	919.1	932.1
12.5°	985.4	996.0	1035.1	1032.7	1035.1	996.0	985.4	938.0	906.1	900.2	902.6
15°	1058.7	1062.3	1070.5	1071.7	1070.5	1062.3	1058.7	1039.8	943.9	902.6	889.6
17.5°	1065.8	1067.0	1072.9	1072.9	1072.9	1067.0	1065.8	1057.5	1025.6	970.0	896.7
20°	1059.9	1062.3	1074.1	1076.4	1074.1	1062.3	1059.9	1049.2	1031.5	1011.4	955.8
22.5°	1057.5	1062.3	1071.7	1070.5	1071.7	1062.3	1057.5	1041.0	1025.6	1011.4	989.0
25°	1045.7	1045.7	1046.9	1048.1	1046.9	1045.7	1045.7	1032.7	1001.9	998.4	985.4
27.5°	1020.8	1023.3	1030.3	1029.2	1030.3	1023.3	1020.8	1016.1	983.0	979.5	970.0
30°	998.4	996.0	990.1	985.4	990.1	996.0	998.4	991.3	958.2	948.7	951.1
32.5°	960.5	954.6	948.7	945.2	948.7	954.6	960.5	958.2	933.4	920.3	922.7
35°	915.5	916.8	915.5	912.1	915.5	916.8	915.5	918.0	902.6	890.7	889.6
37.5°	883.7	886.0	884.8	880.1	884.8	886.0	883.7	881.3	859.9	856.5	858.8
40°	850.5	851.7	850.5	847.0	850.5	851.7	850.5	845.8	816.3	817.4	825.7
42.5°	818.6	817.4	813.8	811.5	813.8	817.4	818.6	811.5	773.6	770.1	785.5
45°	781.9	783.1	776.0	772.5	776.0	783.1	781.9	777.2	738.2	728.7	739.3
47.5°	745.3	745.3	739.3	735.8	739.3	745.3	745.3	739.3	697.9	688.5	694.4
50°	706.2	705.1	696.7	695.6	696.7	705.1	706.2	702.6	658.9	650.6	650.6
52.5°	661.3	661.3	662.4	664.8	662.4	661.3	661.3	662.4	623.4	615.1	612.8
55°	622.2	623.4	631.6	634.1	631.6	623.4	622.2	622.2	586.7	578.5	573.7
57.5°	582.0	582.0	588.0	588.0	588.0	582.0	582.0	579.6	545.3	538.3	535.8
60°	535.8	538.3	542.9	541.8	542.9	538.3	535.8	533.5	503.9	499.2	490.9
62.5°	487.3	489.7	490.9	488.6	490.9	489.7	487.3	480.2	462.5	458.9	448.3
65°	436.5	438.9	440.0	437.7	440.0	438.9	436.5	433.0	419.9	414.0	404.6
67.5°	384.4	383.3	382.1	386.8	382.1	383.3	384.4	379.7	371.5	366.7	353.6
70°	331.2	331.2	330.0	332.4	330.0	331.2	331.2	327.7	322.9	319.4	307.5
72.5°	274.4	273.2	278.0	274.4	278.0	273.2	274.4	273.2	270.9	267.3	255.5
75°	218.8	221.2	218.8	222.4	218.8	221.2	218.8	220.0	218.8	216.5	208.2
77.5°	166.8	169.1	166.8	166.8	166.8	169.1	166.8	168.0	168.0	168.0	160.9
80°	118.3	117.1	117.1	115.9	117.1	117.1	118.3	118.3	119.4	117.1	114.8
82.5°	75.7	74.5	74.5	76.9	74.5	74.5	75.7	76.9	74.5	74.5	74.5
85°	41.4	42.6	40.2	40.2	40.2	42.6	41.4	39.0	41.4	41.4	40.2
87.5°	15.4	14.2	14.2	14.2	14.2	14.2	15.4	16.6	16.6	16.6	17.7
90°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	28.3	37.7	42.4	36.5
92.5°	106.1	101.9	85.0	68.1	85.0	101.9	106.1	150.4	209.4	239.0	209.8
95°	360.2	347.4	296.3	245.1	296.3	347.4	360.2	473.0	623.4	698.6	590.0
97.5°	831.5	807.1	709.9	612.6	709.9	807.1	831.5	902.7	997.8	1045.4	864.3
100°	1167.7	1138.7	1022.8	906.9	1022.8	1138.7	1167.7	1162.5	1155.5	1152.0	951.1
102.5°	1454.7	1429.9	1330.6	1231.3	1330.6	1429.9	1454.7	1363.8	1242.7	1182.2	978.4
105°	1789.7	1776.4	1723.0	1669.7	1723.0	1776.4	1789.7	1586.0	1314.5	1178.8	981.4
107.5°	1964.0	1967.2	1980.1	1993.0	1980.1	1967.2	1964.0	1679.9	1301.2	1111.8	937.8
110°	2008.6	2022.5	2078.1	2133.7	2078.1	2022.5	2008.6	1691.1	1267.7	1055.9	899.1

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1980.2	2001.5	2086.9	2172.2	2086.9	2001.5	1980.2	1655.2	1221.8	1005.2	865.3
115°	1883.6	1913.2	2031.6	2149.9	2031.6	1913.2	1883.6	1570.5	1153.0	944.3	826.6
117.5°	1750.1	1782.9	1914.2	2045.4	1914.2	1782.9	1750.1	1467.5	1090.8	902.4	802.3
120°	1660.2	1692.1	1819.6	1947.2	1819.6	1692.1	1660.2	1402.0	1057.7	885.6	794.1
122.5°	1570.3	1601.7	1727.6	1853.4	1727.6	1601.7	1570.3	1337.8	1027.8	872.8	789.8
125°	1451.3	1480.3	1596.2	1712.1	1596.2	1480.3	1451.3	1253.8	990.5	858.9	786.3
127.5°	1355.9	1380.3	1478.1	1575.8	1478.1	1380.3	1355.9	1186.3	960.2	847.1	784.2
130°	1295.5	1318.1	1408.4	1498.8	1408.4	1318.1	1295.5	1144.6	943.3	842.7	785.5
132.5°	1244.1	1264.4	1345.2	1426.1	1345.2	1264.4	1244.1	1109.0	928.8	838.7	786.3
135°	1171.5	1189.0	1258.7	1328.5	1258.7	1189.0	1171.5	1058.3	907.5	832.0	785.5
137.5°	1118.0	1132.2	1189.3	1246.4	1189.3	1132.2	1118.0	1022.3	894.7	830.9	790.4
140°	1074.9	1088.3	1141.6	1195.0	1141.6	1088.3	1074.9	992.3	882.1	827.0	791.2
142.5°	1044.8	1056.3	1102.2	1148.1	1102.2	1056.3	1044.8	972.2	875.4	827.0	794.0
145°	999.5	1008.2	1043.0	1077.8	1043.0	1008.2	999.5	940.2	861.0	821.4	794.1
147.5°	961.6	968.7	997.6	1026.4	997.6	968.7	961.6	914.8	852.6	821.4	799.5
150°	939.8	945.6	969.0	992.3	969.0	945.6	939.8	900.3	847.8	821.4	802.3
152.5°	922.5	926.9	944.6	962.1	944.6	926.9	922.5	888.9	843.9	821.4	804.2
155°	901.8	904.8	916.4	928.1	916.4	904.8	901.8	875.1	839.4	821.4	808.3
157.5°	883.9	886.0	894.1	902.4	894.1	886.0	883.9	863.1	835.3	821.4	812.4
160°	875.0	876.2	880.9	885.6	880.9	876.2	875.0	857.2	833.4	821.4	814.3
162.5°	866.7	867.7	872.2	876.7	872.2	867.7	866.7	851.6	831.5	821.4	816.3
165°	853.8	854.9	859.7	864.4	859.7	854.9	853.8	843.0	828.6	821.4	819.1
167.5°	848.2	848.8	850.7	852.7	850.7	848.8	848.2	841.1	831.7	827.0	825.0
170°	848.2	848.2	848.2	848.2	848.2	848.2	848.2	841.1	831.7	827.0	826.9
172.5°	843.7	843.3	841.6	839.9	841.6	843.3	843.7	838.2	830.8	827.0	827.0
175°	837.7	837.7	837.7	837.7	837.7	837.7	837.7	834.1	829.3	827.0	828.1
177.5°	836.5	836.0	834.0	832.0	834.0	836.0	836.5	833.7	830.0	828.2	829.1
180°	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0	832.0

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1235.0	1240.9	1244.4	1249.1	1261.0
5°	1187.6	1210.1	1217.3	1235.0	1256.3
7.5°	1083.6	1152.2	1171.1	1213.7	1246.8
10°	983.0	1051.6	1084.8	1185.3	1235.0
12.5°	932.1	972.4	994.9	1135.6	1218.4
15°	900.2	928.6	945.2	1069.4	1199.4
17.5°	875.3	895.5	907.3	1004.3	1173.5
20°	859.9	869.4	880.1	957.0	1143.9
22.5°	849.3	843.4	851.7	923.9	1103.7
25°	842.2	819.7	829.2	897.8	1056.4
27.5°	848.1	798.4	802.0	874.2	1006.7
30°	849.3	772.5	773.6	849.3	951.1
32.5°	841.1	745.3	746.4	818.6	888.3
35°	820.9	713.3	712.1	783.1	803.2
37.5°	793.7	679.0	679.0	744.1	709.7
40°	760.7	644.7	648.2	693.2	627.0
42.5°	720.4	608.0	612.8	625.7	565.5
45°	676.6	572.6	576.0	528.8	518.1
47.5°	628.2	535.8	537.0	438.9	502.7
50°	570.1	498.0	493.3	376.2	501.6
52.5°	519.3	456.6	442.4	340.7	455.4
55°	469.6	412.8	382.1	313.4	422.3
57.5°	425.8	356.1	326.5	281.6	415.2
60°	385.6	300.5	278.0	247.2	380.9
62.5°	352.5	259.1	254.4	223.6	345.4
65°	317.0	230.6	229.5	203.5	293.4
67.5°	282.7	211.7	210.6	184.5	223.6
70°	246.0	191.6	189.3	164.5	165.6
72.5°	208.2	169.1	166.8	147.9	137.3
75°	170.4	143.2	141.9	128.9	111.2
77.5°	133.7	113.5	115.9	104.1	81.7
80°	95.8	82.8	85.1	74.5	61.5
82.5°	63.8	54.4	56.8	47.3	41.4
85°	35.5	30.8	32.0	24.8	18.9
87.5°	16.6	14.2	14.2	9.5	5.9
90°	24.6	15.7	14.5	10.0	5.6
92.5°	151.5	107.8	98.3	60.3	22.3
95°	372.8	210.0	192.6	123.1	53.6
97.5°	502.2	230.6	215.3	154.0	92.7
100°	549.3	247.9	234.0	178.4	122.8
102.5°	570.9	265.3	252.3	200.5	148.5
105°	586.9	291.0	280.0	236.1	192.1
107.5°	589.9	328.9	318.7	277.7	236.8
110°	585.4	350.2	340.9	303.9	266.9

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CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	585.6	375.9	367.1	331.8	296.5
115°	591.0	414.4	406.2	373.7	341.2
117.5°	602.0	451.8	444.4	414.9	385.3
120°	610.9	473.5	466.5	438.8	410.9
122.5°	623.8	499.2	492.2	464.1	436.1
125°	641.0	532.2	525.8	500.2	474.7
127.5°	658.3	564.0	557.5	531.7	505.9
130°	671.0	585.2	578.2	550.4	522.7
132.5°	681.2	602.5	595.6	567.8	540.0
135°	692.4	622.6	616.2	591.0	565.7
137.5°	709.2	648.3	642.0	617.0	591.9
140°	719.5	665.7	659.9	636.8	613.7
142.5°	728.0	678.5	673.1	651.8	630.5
145°	739.2	698.0	693.3	674.8	656.2
147.5°	755.6	722.6	718.0	700.0	681.8
150°	764.1	735.4	731.3	715.0	698.6
152.5°	769.7	743.8	740.7	728.3	715.9
155°	782.0	762.3	759.9	750.8	741.6
157.5°	794.2	780.6	778.4	769.5	760.6
160°	799.9	789.0	787.3	780.4	773.4
162.5°	805.8	798.0	796.6	791.5	786.3
165°	814.4	810.8	809.6	804.9	800.2
167.5°	821.0	818.0	817.5	815.3	813.0
170°	826.6	826.5	825.9	823.7	821.4
172.5°	827.0	827.0	826.9	826.4	825.9
175°	830.3	832.0	832.0	832.0	832.0
177.5°	830.8	832.0	832.0	832.0	832.0
180°	832.0	832.0	832.0	832.0	832.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.04	12.80	13.09	13.86	15.30	14.83	15.59	15.89	16.66	18.09
	3H	12.51	13.19	13.57	14.26	15.71	16.16	16.84	17.23	17.91	19.37
	4H	12.69	13.34	13.77	14.41	15.87	16.60	17.24	17.67	18.31	19.78
	6H	12.81	13.40	13.89	14.48	15.95	16.87	17.46	17.95	18.54	20.01
	8H	12.81	13.37	13.90	14.46	15.93	16.93	17.50	18.03	18.59	20.06
	12H	12.77	13.31	13.87	14.39	15.89	16.97	17.50	18.06	18.59	20.08
4H	2H	13.05	13.69	14.13	14.77	16.23	15.23	15.88	16.32	16.95	18.41
	3H	14.07	14.60	15.16	15.70	17.18	16.72	17.26	17.81	18.36	19.83
	4H	14.34	14.83	15.44	15.92	17.42	17.24	17.73	18.33	18.82	20.32
	6H	14.46	14.88	15.56	15.99	17.48	17.59	18.01	18.69	19.12	20.61
	8H	14.46	14.86	15.57	15.96	17.47	17.69	18.08	18.79	19.19	20.69
	12H	14.42	14.78	15.55	15.90	17.41	17.73	18.09	18.86	19.21	20.72
8H	4H	14.78	15.17	15.88	16.28	17.78	17.35	17.75	18.46	18.85	20.36
	6H	15.04	15.36	16.16	16.51	18.01	17.78	18.10	18.91	19.25	20.75
	8H	15.08	15.36	16.21	16.49	18.01	17.92	18.21	19.06	19.34	20.86
	12H	15.06	15.31	16.19	16.43	17.99	18.01	18.26	19.15	19.39	20.95
12H	4H	14.78	15.14	15.90	16.25	17.76	17.31	17.67	18.44	18.79	20.30
	6H	15.09	15.38	16.23	16.51	18.03	17.77	18.06	18.91	19.19	20.71
	8H	15.16	15.41	16.29	16.53	18.09	17.93	18.18	19.06	19.30	20.86

END OF REPORT